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for in-vitro testing of active substances on cells. The device includes a cell culture container with an interior chamber and a first and second membrane system located in the interior chamber. The first membrane system is located in the interior chamber formed between the membrane system and the interior chamber, providing a cell culture and cell culture medium. A fluid nutrient medium to the cell culture medium is introduced by means of the first membrane system, and the cell culture space by means of the second membrane system. The active substance to the cell culture space, with an adjusted active substance concentration-time profile, is introduced. In addition, a device and the use of said device on the leukemic cell line CCRF CEM is described.

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